PTO/SB/05 (08-03) Approved for use through 07/31/2006. OMB 0651-0032

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UTILITY	Attorney Docket No.	22-0153	
PATENT APPLICATION	First Inventor	Nicholas F. DiCamillo	
TRANSMITTAL	Title	See 1 in Addendum Q	
(Only for new nonprovisional applications under 37 CFR 1.53(b))	Express Mail Label No.	ET837519351US	
(Only for new nonprovisional applications			

TRANSMITTAL 0 (Only for new nonprovisional applications under 37 CFR 1.53(b)) O Mail Stop Patent Application Commissioner for Patents ADDRESS TO: APPLICATION ELEMENTS P.O. Box 1450 Alexandria VA 22313-1450 See MPEP chapter 600 concerning utility patent application contents. CD-ROM or CD-R in duplicate, large table or Fee Transmittal Form (e.g., PTO/SB/17) Computer Program (Appendix) 1. X (Submit an original and a duplicate for fee processing) Nucleotide and/or Amino Acid Sequence Submission Applicant claims small entity status. (if applicable, all necessary) See 37 CFR 1.27. Computer Readable Form (CRF) [Total Pages 3. X Specification (preferred arrangement set forth below) Specification Sequence Listing on: Descriptive title of the invention - Cross Reference to Related Applications CD-ROM or CD-R (2 copies); or - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix Paper ii. - Background of the Invention - Brief Summary of the Invention Statements verifying identity of above copies - Brief Description of the Drawings (if filed) ACCOMPANYING APPLICATION PARTS - Detailed Description - Abstract of the Disclosure Assignment Papers (cover sheet & document(s)) X Power of 37 CFR 3.73(b) Statement 4. X Drawing(s) (35 U.S.C. 113) [Total Sheets 10 Attorney (when there is an assignee) English Translation Document (if applicable) [Total Sheets 11. 5. Oath or Declaration Copies of IDS Information Disclosure a. X Newly executed (original or copy) 12. Citations Statement (IDS)/PTO-1499 **Preliminary Amendment** Copy from a prior application (37 CFR 1.63(d)) 13. Return Receipt Postcard (MPEP 503) (for continuation/divisional with Box 18 completed) (Should be specifically itemized) Certified Copy of Priority Document(s) **DELETION OF INVENTOR(S)** (if foreign priority is claimed) Signed statement attached deleting inventor(s) Nonpublication Request under 35 U.S.C. 122 name in the prior application, see 37 CFR 16. [(b)(2)(B)(i). Applicant must attach form PTO/SB/35 1.63(d)(2) and 1.33(b). or its equivalent. Other: Certificate of Express Mail Application Data Sheet. See 37 CFR 1.76 17. X 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76: of prior application No.: Continuation-in-part (CIP) ___ Divisional Continuation Art Unit: For CONTINUATION OF DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box FOR CONTINUATION OF DIVISIONAL AFFS only; The entire disclosure of the prior application, from which an oath or declaration is supplied up. 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS OR X Correspondence address below Customer Number: Northrop Grumman Space & Mission Systems Corp. Name One Space Park, Bldg. E1/2041 Address Zip Code 90278 State CA Redondo Beach City Fax 310-812-2687 Telephone 310-813-1550 Country Registration No. (Attorney/Agent) 43,191 Connie M. Thousand Name (Print/Type) 10/09/2003 Date

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.



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Complete if Known

October 9, 2003

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Application Number

Filing Date

FEE TRANSMIT

TOF FY ZUU3 Effective 01/01/2003. Patent fees are subject to annual revision.		First Named Inventor	Nicholas F. DiCamillo
			Unassigned
Applicant claims small entity status. Se	ee 37 CFR 1.27	Art Unit	N/A
OF DAVMENT	(\$) 1 068 00		22-0153

TOTAL AMOUNT OF PATIMENT (4) 17 000 100 Automoty Books 110.					
METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)				
Check Credit card Money Other None	3. ADDITIONAL FEES				
Check Credit Card Order Order	Large Entity , Small Entity				
X Deposit Account:	Fee Fee Fee Fee Fee Description Code (\$) Code (\$)	e Paid			
Deposit Account 14-1325	1051 130 2051 65 Surcharge - late filing fee or oath				
Number Deposit	1052 50 2052 25 Surcharge - late provisional filing fee or cover sheet				
Name	1053 130 1053 130 Non-English specification				
The Commissioner is authorized to: (check all that apply)	1812 2,520 1812 2,520 For filing a request for ex parte reexamination				
X Charge fee(s) indicated below X Credit any overpayments X Charge any additional fee(s) during the pendency of this application	1804 920* 1804 920* Requesting publication of SIR prior to				
Charge fee(s) indicated below, except for the filing fee	1805 1,840* 1805 1,840* Requesting publication of SIR after Examiner action				
to the above-identified deposit account.	1251 110 2251 55 Extension for reply within first month				
FEE CALCULATION	1252 410 2252 205 Extension for reply within second month				
1. BASIC FILING FEE	1253 930 2253 465 Extension for reply within third month				
Large Entity Small Entity	1254 1,450 2254 725 Extension for reply within fourth month				
Code (\$) Code (\$)	1255 1,970 2255 985 Extension for reply within fifth month				
1001 750 2001 375 Utility filing fee 770.00	1401 320 2401 160 Notice of Appeal				
1002 330 2002 165 Design filing fee	1402 320 2402 160 Filing brief in support of an appeal				
1003 520 2003 260 Plant filing fee	1403 280 2403 140 Request for oral hearing				
1004 750 2004 375 Reissue filing fee	1451 1,510 1451 1,510 Petition to institute a public use proceeding				
1005 160 2005 80 Provisional filing fee	1452 110 2452 55 Petition to revive - unavoidable				
SUBTOTAL (1) (\$) 770.00	1453 1,300 2453 650 Petition to revive - unintentional				
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	E 1501 1,300 2501 650 Utility issue fee (or reissue)				
Extra Claims Fee from below Fee Paid					
Total Claims 13 -20** = 0 X ==============================	1503 630 2503 315 Plant issue fee				
Independent 6 - 3** = 3 x 86 = 258	1460 130 1460 130 Petitions to the Commissioner				
Claims Multiple Dependent	1807 50 1807 50 Processing fee under 37 CFR 1.17(q)				
Large Entity Small Entity	1806 180 1806 180 Submission of Information Disclosure Stmt				
Fee Fee Fee Fee <u>Fee Description</u> Code (\$) Code (\$)	8021 40 8021 40 Recording each patent assignment per property (times number of properties)	40.00			
1202 18 2202 9 Claims in excess of 20	1809 750 2809 375 Filing a submission after final rejection (37 CFR 1.129(a))				
1201 84 2201 42 Independent claims in excess of 3 1203 280 2203 140 Multiple dependent claim, if not paid	d 1810 750 2810 375 For each additional invention to be examined (37 CFR 1.129(b))				
1204 84 2204 42 ** Reissue independent claims	1801 750 2801 375 Request for Continued Examination (RCE)				
over original patent	1902 000 1802 900 Request for expedited examination				
1205 18 2205 9 Reissue claims in excess of 20 and over original patent	of a design application Other fee (specify) Certificate of Express Mail				
SUBTOTAL (2) (\$) 258.00	Other fee (specify) Certificate of Express Main *Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$)	40.00			
**or number previously paid, if greater, For Reissues, see above	*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$)	40.00			

(Complete (if applicable) SUBMITTED BY Registration No. Telephone 310-813-1550 43.191 Connie M. Thousand (Attorney/Agent) Name (Print/Type) October 9, 2003 Signature

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Nicholas F. DiCamillo, Terrence R. Smigla and Garrick J. Harmon

Application No.:

Group No.: N/A

Filed: 10/09/2003

Examiner: Unassigned

For: SIGNAL PROCESSING APPARATUS AND METHOD, AND COMMUNICATION SYSTEM

UTILIZING SAME

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

EXPRESS MAIL CERTIFICATE

"Express Mail" label number ET837519351US Date of Deposit 10/09/2003

I hereby state that the following attached papers or fees

- 1. Utility Patent Application Transmittal 2pgs.
- 2. Fee Transmittal in duplicate
- 3. Patent Application (11pgs., Specification 6pgs., Claims 4pgs. (13 Claims), Abstract 1pg.
- 4. 2 Sheets Formal Drawings (Figures 1-3)
- 5. Declaration 3pgs.
- 6. Assignment 2pgs. w/PTO-1595 in duplicate

are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10, on the date indicated above and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Lorna L. Schott

Signature of person mailing paper or fee

Addendum

1. SIGNAL PROCESSING APPARATUS AND METHOD, AND COMMUNICATION SYSTEM UTILIZING SAME